GEOLOGICAL SURVEY OF OHIO
WILBER STOUT, State Geologist

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Fourth Series

Information Circular No. 2

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# GENERALIZED SECTION OF COAL BEARING ROCKS OF OHIO

By
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COLUMBUS
1939

# GENERALIZED SECTION OF OHIO

| System | Series | Bed and Member | Thickness Ft. | Thickness In. | Interval Ft. | Interval In. | Fields |
|---|---|---|---|---|---|---|---|
| | | Sandstone, *Gilmore* | 20 | 0 | | | |
| | | Shales, variable | 32 | 0 | | | |
| | | Limestone, local, *Gilmore* | 2 | 0 | | | |
| | | Shales, variable | 61 | 0 | 178 | 0 | |
| | | Sandstone, local, *Nineveh* | 52 | 0 | | | |
| | | Shales, soft to hard | 10 | 0 | | | |
| | | Coal, local, shaly, *Nineveh* | 1 | 0 | | | 53 No value |
| | | Limestone irregular, *Nineveh* | 8 | 0 | | | |
| | | Shale and shaly sandstone | 91 | 0 | 100 | 0 | |
| | Greene | Coal, thin, shaly, local, *Hostetter* | 1 | 0 | | | 52 No value |
| | | Shales, variable | 39 | 0 | | | |
| | | Coal, very local, *Fish Creek* | 1 | 0 | 40 | 0 | 51 No value |
| | | Shale, soft or hard | 10 | 0 | | | |
| | | Sandstone, local, *Fish Creek* | 20 | 0 | 45 | 0 | |
| | | Shales, variable | 14 | 0 | | | |
| | | Coal, local, impure, *Dunkard* | 1 | 0 | | | 50 No value |
| | | Shale, irregular | 7 | 0 | | | |
| | | Sandstone, local, *Jollytown* | 25 | 0 | 42 | 0 | |
| | | Shales, variable | 8 | 0 | | | |
| | | Coal, local, impure, *Jollytown "A"* | 2 | 0 | | | 49 No value |
| | | | | | 405 | 0 | |
| | | Shales, variable | 1 | 0 | | | |
| | | Limestone, irregular, *Upper Washington* | 5 | 0 | | | |
| | | Shale, variable | 3 | 0 | | | |
| Permian | | Sandstone, local, *Hundred* | 17 | 0 | 49 | 0 | |
| | | Shales, variable | 3 | 0 | | | |
| | | Sandstone, *Upper Marietta* | 16 | 0 | | | |
| | | Shale, siliceous | 2 | 0 | | | |
| | | Coal, shaly, local, *Washington "A"* | 2 | 0 | | | 48 No value |
| | | Shales, local | 8 | 0 | | | |
| | | Limestone, *Middle Washington—Creston Reds* | 7 | 0 | | | |
| | | Shales, soft to hard | 26 | 0 | | | |
| | | Limestone, *Lower Washington* | 9 | 0 | 63 | 0 | |
| | | Shale, calcareous | 3 | 0 | | | |
| | Washington | Sandstone, local, *Lower Marietta* | 6 | 0 | | | |
| | | Shale, siliceous | 1 | 0 | | | |
| | | Coal, shaly, *Washington* | 3 | 0 | | | 47 Often thick but impure |
| | | Shales, soft to hard | 15 | 0 | | | |
| | | Coal, shaly, *Little Washington* | 1 | 0 | 16 | 0 | 46 No value |
| | | Shales, irregular | 4 | 0 | | | |
| | | Sandstone, local, *Mannington* | 30 | 0 | 42 | 0 | |
| | | Shales, variable | 6 | 0 | | | |
| | | Coal, unsteady, *Waynesburg "A"* | 2 | 0 | | | 45 Used locally near Sardis and New Matamoras |
| | | Shales, soft to hard | 9 | 0 | | | |
| | | Sandstone, rather steady, *Waynesburg* | 30 | 0 | | | |
| | | Shale, gray, siliceous | 5 | 0 | 51 | 0 | |
| | | Limestone, *Elm Grove* | 2 | 0 | | | |
| | | Shale, gray, *Cassville* | 5 | 0 | | | |
| | | | | | 221 | 0 | |
| | | Coal, fair purity, *Waynesburg No. 11* | 1 | 4 | | | 44 Of most value in Belmont and southern Jefferson counties |
| | | Shale and sandstone, *Gilboy* | 14 | 6 | 16 | 0 | |
| | | Coal, persistent, *Little Waynesburg* | | 2 | | | 43 No value |
| | | Limestone and marly shale, *Waynesburg* | 10 | 0 | | | |
| | | Shale or sandstone, *Uniontown* | 28 | 7 | 39 | 5 | |
| | | Coal, *Uniontown No. 10* | | 10 | | | 42 Worked locally on Sunfish Creek, Monroe County |
| | | Shale, siliceous and limestone, *Uniontown* | 5 | 0 | | | |
| | | Sandstone, *Arnoldsburg* | 8 | 0 | | | |
| | | Coal, wanting, *Arnoldsburg* | | | | | |
| | | Limestone and calcareous shale, *Arnoldsburg* | 37 | 0 | | | |
| | Monongahela | Shale, green, or shaly sandstone, *Fulton* | 4 | 0 | 110 | 2 | |
| | | Limestone and calcareous shale, *Benwood* | 34 | 4 | | | |
| | | Sandstone, local, *Sewickley* | 20 | 0 | | | |
| | | Coal, *Sewickley, Mapletown, Meigs Creek No. 9* | 1 | 10 | | | 41 Well developed in Belmont, Noble, Morgan, Guernsey, and Muskingum counties |
| | | Clay shale, calcareous | 3 | 0 | | | |
| | | Sandstone, *Lower Sewickley* | 19 | 6 | 23 | 1 | |
| | | Coal, persistent, thin, *Fishpot* | | 7 | | | 40 Seldom over 2 feet thick, fair quality |
| | | Limestone and marly shale, *Fishpot* | 32 | 1 | 33 | 5 | |
| | | Coal, unsteady, *Redstone, Pomeroy* | 1 | 4 | | | 39 Coal of Pomeroy field |
| | | Limestone and marly shale, *Redstone* | 13 | 0 | | | |
| | | Sandstone, local, *Upper Pittsburgh* | 9 | 0 | 25 | 7 | |
| | | Coal, persistent, *Pittsburgh No. 8* | 3 | 7 | | | 38 Coal of Belmont, Federal Creek, and Swan Creek fields |
| | | | | | 247 | 8 | |
| | | Clay shale | | 6 | | | |
| | | Limestone, irregular, *Upper Pittsburgh* | 5 | 0 | 19 | 0 | |
| | | Clay shale | 13 | 5 | | | |
| | | Coal, very local, *Upper Little Pittsburgh* | | 1 | | | 37 No value |
| | | Clay shale | 4 | 6 | | | |
| | | Sandstone, local, *Bellaire* | 10 | 0 | | | |
| | | Shale, siliceous | 2 | 5 | 17 | 0 | |
| | | Coal, seldom present, *Lower Little Pittsburgh* | | 1 | | | 36 No value |
| | | Shale, variable | 8 | 0 | | | |
| | | Limestone, *Summerfield, Lower Pittsburgh* | 12 | 0 | | | |
| | | Shales, variable | 26 | 0 | 69 | 0 | |
| | | Sandstone, local *Connellsville* | 20 | 0 | | | |
| | | Clay shale | 2 | 10 | | | |
| | | Coal, local, *Clarksburg* | | 2 | | | 35 No value |
| | | Limestone and marly shale, *Clarksburg* | 4 | 0 | | | |
| | | Sandstone, local, *Morgantown* | 30 | 0 | 34 | 1 | |
| | | Coal, usually wanting, *Elk Lick* | | 1 | | | 34 No value |
| | | Limestone and marly shale, *Elk Lick* | 5 | 0 | | | |
| | | Shale, variable | 5 | 0 | | | |
| | | Shale, siliceous, *Birmingham* | 10 | 0 | 20 | 5 | |
| | | Limestone, local, marine, *Skelley* | | 4 | | | |
| | | Coal, seldom evident, *Duquesne* | | 1 | | | 33 No value |
| | | Shale, variable | 9 | 0 | | | |
| | | Shale, siliceous | 11 | 0 | | | |
| | | Limestone, siliceous, marine, *Gaysport* | 1 | 0 | | | |
| | Conemaugh | Shale, siliceous | 16 | 0 | 54 | 6 | |
| | | Limestone, marine, *Ames* | 1 | 6 | | | |
| | | Shale, siliceous | 15 | 0 | | | |
| | | Coal, persistent, *Harlem* | 1 | 0 | | | 32 Used locally, Harlem Springs, Carroll County |
| | | Clay, calcareous | 3 | 0 | | | |
| | | Clay shale, red, *Round Knob—Pittsburgh* | 12 | 0 | | | |
| | | Sandstone, local, *Saltzburg* | 8 | 0 | 26 | 0 | |
| | | Shale, siliceous | 2 | 0 | | | |
| | | Coal, local, *Barton* | 1 | 0 | | | 31 No value |
| | | Clay shale | 4 | 0 | | | |
| | | Limestone, ferruginous, *Ewing* | 1 | 0 | | | |
| | | Shale, siliceous | 3 | 0 | | | |
| | | Sandstone, local, *Cow Run* | 15 | 4 | 29 | 0 | |
| | | Shale, siliceous | 2 | 0 | | | |
| | | Limestone, marine, *Portersville* | 2 | 0 | | | |
| | | Coal, persistent, *Anderson* | 1 | 8 | | | 30 Worked locally near Ava, Belle Valley, Chandlersville, and New Concord |
| | | Clay shale | 3 | 7 | | | |
| | | Limestone, local, *Bloomfield* | 1 | 5 | | | |
| | | Shales, variable | 19 | 0 | 30 | 0 | |
| | | Limestone, marine, *Cambridge* | 4 | 0 | | | |
| | | Coal, unsteady, *Wilgus* | 2 | 0 | | | 29 Best near Wilgus and Arabia, Lawrence County |
| | | Clay, shale | 3 | 8 | | | |
| | | Shale or sandstone, *Buffalo* | 23 | 0 | | | |
| | | Limestone, marine, *Brush Creek* | 20 | 0 | 47 | 0 | |
| | | Coal, local, thin, *Brush Creek* | | 4 | | | 28 No value |
| | | Shales, variable | 10 | 6 | 11 | 0 | |
| | | Coal, local, *Mason* | | 6 | | | 27 No value |
| | | Shale or sandstone *Upper Mahoning* | 10 | 0 | 11 | 0 | |
| | | Coal, *Mahoning, Groff* | 1 | 0 | | | 26 Worked in Columbiana and Jefferson counties |
| | | Clay, irregular, *Thornton* | 5 | 0 | | | |
| | | Limestone, local, *Mahoning* | 2 | 0 | 32 | 0 | |
| | | Shale or sandstone, *Lower Mahoning* | 25 | 0 | | | |
| | | | | | 400 | 0 | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Pennsylvanian | | Coal, patchy, *Upper Freeport No. 7* | 3 | 0 | | | 25 | Worked extensively in Salineville, Freeport, Cambridge, Jacksonville, and Waterloo fields |
| | | Clay and shale | 7 | 0 | | | | |
| | | Limestone and marly shale, *Upper Freeport* | 2 | 0 | 12 | 3 | | |
| | | Coal, local, thin, *Bolivar* | | 3 | | | 24 | No value |
| | | Clay, flint and plastic, *Bolivar* | 5 | 0 | | | | |
| | | Shale or sandstone, *Upper Freeport* | 33 | 0 | 39 | 0 | | |
| | | Coal, patchy, *Lower Freeport, Rogers* | 1 | 0 | | | 23 | Steubenville shaft, Bergholz, Amsterdam |
| | | Clay, impure | 2 | 6 | | | | |
| | | Limestone, local, *Lower Freeport* | 1 | 0 | 29 | 6 | | |
| | | Shale or sandstone, *Lower Freeport* | 25 | 0 | | | | |
| | | Coal, seldom present, *Upper Kittanning* | 1 | 0 | | | 22 | No value |
| | | Shale and sandstone | 10 | 0 | | | | |
| | | Shale, marine, *Washington* (*Yellow Kidney* ore) | 4 | 0 | 18 | 0 | | |
| | | Coal, persistent, *Middle Kittanning* No. 6 | 4 | 0 | | | 21 | Great bed of Hocking Valley, Tuscarawas Valley, and Sandy Creek |
| | | Clay, siliceous | 3 | 6 | | | | |
| | | Limestone, impure, local, *Salem* | | 6 | 14 | 6 | | |
| | | Shales, siliceous, with *Red Kidney* ore | 10 | 0 | | | | |
| | | Coal, local, *Strasburg* | | 6 | | | 20 | Little value |
| | | Clay, flint and plastic, *Oak Hill* | 4 | 0 | | | | |
| | | Shales, siliceous | 3 | 0 | 13 | 4 | | |
| | Allegheny | Limestone, unsteady, marine, *Hamden* | 4 | 0 | | | | |
| | | Coal, *Lower Kittanning No. 5* | 2 | 4 | | | 19 | Lawrence, Jackson, Tuscarawas, Carroll, and Columbiana counties |
| | | Clay, plastic | 5 | 0 | 5 | 4 | | |
| | | Coal, shaly, local, *Lawrence* | | 4 | | | 18 | No value |
| | | Clay, flint and plastic | 6 | 0 | | | | |
| | | Shale and sandstone, *Kittanning* | 8 | 2 | | | | |
| | | Ore, irregular, *Ferriferous* | | 8 | 21 | 4 | | |
| | | Limestone, marine, *Vanport* | 6 | 0 | | | | |
| | | Coal, seldom present, *Scrubgrass* | | 6 | | | 17 | No value |
| | | Shale, carbonaceous | 5 | 0 | 9 | 0 | | |
| | | Coal, patchy, *Clarion No. 4a* | 4 | 0 | | | 16 | Limestone coal of Lawrence, Jackson, Gallia, and Vinton counties |
| | | Clay, flint and plastic | 5 | 0 | | | | |
| | | Ore, very local, *Canary* | | 6 | 17 | 0 | | |
| | | Sandstone, irregular, *Clarion* | 10 | 6 | | | | |
| | | Coal, very local, *Winters* | 1 | 0 | | | 15 | Of value northern Jackson and southern Vinton counties |
| | | Flint, impure, marine, *Zaleski* | 1 | 0 | 2 | 0 | | |
| | | Coal, local, *Ogan* | 1 | 0 | | | 14 | Little value |
| | | Shale and sandstone | 25 | 0 | | | | |
| | | Limestone, marine, *Putnam Hill* | 4 | 0 | 31 | 0 | | |
| | | Coal, steady, *Brookville No. 4* | 2 | 0 | | | 13 | Widely distributed, best in Vinton, Jackson, Stark, Wayne, and Holmes counties |
| | | | | | 212 | 3 | | |
| | | Clay, plastic | 4 | 0 | | | | |
| | | Shale or sandstone, *Homewood* | 10 | 0 | 15 | 0 | | |
| | | Coal, local, *Tionesta No. 3b* | 1 | 0 | | | 12 | Worked locally near Zanesville |
| | | Clay, plastic | 5 | 0 | | | | |
| | | Shale and sandstone | 24 | 0 | | | | |
| | | Ore, irregular, *Upper Mercer, Big Red Block* | | 4 | 32 | 0 | | |
| | | Limestone or flint, *Upper Mercer* | 1 | 8 | | | | |
| | | Coal, patchy, *Bedford* | 1 | 0 | | | 11 | Cannel coal of Coshocton and Holmes counties |
| | | Clay, siliceous | 3 | 0 | | | | |
| | | Shale and sandstone | 7 | 0 | | | | |
| | | Ore, siliceous, local, *Sand Block* | | 6 | 15 | 0 | | |
| | | Shale and sandstone | 3 | 6 | | | | |
| | | Coal, local, *Upper Mercer No. 3a* | 1 | 0 | | | 10 | Worked locally in Scioto, Jackson, and Lawrence counties |
| | | Clay, siliceous, plastic | 3 | 0 | | | | |
| | | Shale and sandstone | 11 | 0 | | | | |
| | | Ore, kidney, *Lower Mercer, Little Red Block* | | 3 | | | | |
| | | Shale, siliceous | 1 | 9 | 18 | 6 | | |
| | | Limestone, steady, marine, *Lower Mercer* | 2 | 0 | | | | |
| | | Coal, steady, thin, *Middle Mercer* | | 6 | | | 9 | Mine near East Greenville, Stark County |
| | | Clay, siliceous, plastic | 3 | 6 | | | | |
| | | Shale and sandstone | 5 | 0 | 9 | 0 | | |
| | | Coal, thin, local, *Flint Ridge* | | 6 | | | 8 | Cannel coal of Flint Ridge, Licking County |
| | | Clay, plastic and flint | 4 | 0 | | | | |
| | | Shale and sandstone | 5 | 0 | | | | |
| | | Ore and limestone, marine, *Boggs* | | 6 | 11 | 6 | | |
| | | Shale, siliceous | 1 | 0 | | | | |
| | | Coal, steady, thin, *Lower Mercer No. 3* | 1 | 0 | | | 7 | Used locally in Vinton, Jackson, and Scioto counties |
| | Pottsville | Clay, siliceous | 3 | 0 | | | | |
| | | Shale and sandstone | 23 | 0 | 28 | 0 | | |
| | | Limestone or ore, marine, *Lowellville, Poverty Run* | 1 | 0 | | | | |
| | | Coal, thin, unsteady, *Vandusen* | 1 | 0 | | | 6 | Used locally in Jackson and Scioto counties |
| | | Clay, impure | 2 | 0 | | | | |
| | | Shale and sandstone | 17 | 0 | 20 | 6 | | |
| | | Coal, local, *Bear Run* | 1 | 6 | | | 5 | Used locally in Jackson and Scioto counties |
| | | Clay, siliceous | 3 | 0 | | | | |
| | | Shale or sandstone, *Connoquenessing or Massillon* (*Jackson Sand Block and Lincoln* ores in interval) | 24 | 0 | 29 | 0 | | |
| | | Coal, patchy, *Quakertown No. 2* | 2 | 0 | | | 4 | Important near Coalton and Wellston |
| | | Clay, siliceous | 5 | 0 | | | | |
| | | Shale and sandstone | 12 | 0 | 17 | 3 | | |
| | | Coal, thin, local, *Huckleberry* | | 3 | | | 3 | No value |
| | | Clay, siliceous | 3 | 0 | | | | |
| | | Shale, argillaceous | 1 | 0 | | | | |
| | | Ore, local, *Guinea Fowl* | | 3 | 10 | 3 | | |
| | | Shale, gray, siliceous | 5 | 9 | | | | |
| | | Coal, thin, *Anthony* | | 3 | | | 2 | No value |
| | | Clay, flint and plastic, *Sciotoville* | 4 | 0 | | | | |
| | | Shale and sandstone | 20 | 0 | | | | |
| | | Ore, local, marine, *Sharon* | | 3 | 32 | 0 | | |
| | | Shale, siliceous | 4 | 9 | | | | |
| | | Coal, patchy, *Sharon No. 1* | 3 | 0 | | | 1 | Of value Massillon and Jackson fields |
| | | Clay, impure | 2 | 0 | | | | |
| | | Shale, siliceous, irregular | 5 | 0 | 18 | 0 | | |
| | | Conglomerate, patchy, *Sharon* | 10 | 0 | | | | |
| | | Ore, local, impure, marine, *Harrison* | 1 | 0 | | | | |
| | | | | | 256 | 0 | | |